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UNITED STATES DEPARTMENT OF AGRICULTURE
STATES RELATIONS SERVICE

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RURAL ENGINEERING PUBLICATIONS OF DEPARTMENT OF AGRICULTURE
CLASSIFIED FOR THE USE OF TEACHERS.

The following list of publications has been prepared to assist teachers in making an intelligent selection of Department publications on topics pertaining to the subject of rural engineering. Teachers should avoid requesting a large list of publications on different topics at one time, or of publications the use of which is to be distributed over a long period of school work. It must be the policy of the Department to limit the distribution of publications to actual present needs as nearly as possible, so that the funds available for purposes of publication can be made to benefit the largest possible number of real users. A few bulletins carefully studied by the teacher and the class or assigned to certain members for individual reports are of much greater service than a hundred forgotten on the shelves at home or in the school library. Copies of any of the publications listed below, except those marked with an asterisk, may be obtained free upon application to the Division of Publications of the U. S. Department of Agriculture as long as the Department's supply lasts. Those marked with an asterisk may be obtained at the prices indicated from the Superintendent of Documents, Government Printing Office, Washington, D. C. Postage stamps, coins defaced or worn smooth, foreign money and uncertified checks will not be accepted. No publications are sold by the Department of Agriculture.

| Topic | Title | Publication | Price |
|------------|--|--------------------|----------|
| Irrigation | *: Irrigation in Field and Garden..... | Farmers' Bulletin | 138: .05 |
| | *: How to Build Small Irrigation Ditches.... | Farmers' Bulletin | 158: .05 |
| | *: Irrigation of Sugar Beets..... | Farmers' Bulletin | 392: .05 |
| | : Sugar Beet Growing Under Irrigation..... | Farmers' Bulletin | 567: |
| | : Irrigation Practice in Rice Growing..... | Farmers' Bulletin | 673: |
| | : Construction and Use of Farm Weirs..... | Farmers' Bulletin | 813: |
| | : Farm Reservoirs..... | Farmers' Bulletin | 828: |
| | : Irrigation of Grain..... | Farmers' Bulletin | 863: |
| | : Practical Information for Beginners in : : | | : |
| | : Irrigation..... | Farmers' Bulletin | 864: |
| | : Irrigation of Alfalfa..... | Farmers' Bulletin | 865: |
| | : The Use of Windmills in Irrigation in : : | | : |
| | : the Semiarid West..... | Farmers' Bulletin | 866: |
| | : Irrigation of Orchards..... | Farmers' Bulletin | 882: |
| | : Surface Irrigation for Eastern Farms..... | Farmers' Bulletin | 899: |
| | : Potato Culture Under Irrigation..... | Farmers' Bulletin | 953: |
| | *: Concrete Lining as Applied to Irrigation : | | : |
| | : Canals..... | Dept. Bulletin 126 | : .10 |
| | *: Wood Pipe for Conveying Water for Irrigation..... | Dept. Bulletin 155 | : .10 |

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| Drainage | *:Experiments on the Economical Use of Irrigation Water in Idaho..... | :Dept. Bulletin 339 | : .10 |
| | *:Irrigation in Florida..... | :Dept. Bulletin 462 | : .15 |
| | *:Spray Irrigation..... | :Dept. Bulletin 495 | : .10 |
| | *:Pumping for Irrigation on the Farm..... | :Y. B. Separate 703 | : .05 |
| | *:Tile Drainage on the Farm..... | :Farmers' Bulletin 524 | : .05 |
| | *:Trenching Machinery Used for the Construction of Trenches for Tile Drains..... | :Farmers' Bulletin 698 | : .05 |
| | :Drainage of Irrigated Lands..... | :Farmers' Bulletin 805: | |
| | :Organization, Financing, and Administration of Drainage Districts..... | :Farmers' Bulletin 815: | |
| | *:Drainage of Irrigated Lands..... | :Dept. Bulletin 190 | : .10 |
| | *:Excavating Machinery Used in Land Drainage..... | :Dept. Bulletin 300 | : .15 |
| *:Land Drainage by Means of Pumps..... | :Dept. Bulletin 304 | : .15 | |
| *:The Drainage of Irrigated Shale Lands..... | :Dept. Bulletin 502 | : .15 | |
| *:Prevention of the Erosion of Farm Lands by Terracing..... | :Dept. Bulletin 512 | : .15 | |
| :The Wet Lands of Southern Louisiana and Their Drainage..... | :Dept. Bulletin 652 | : .15 | |
| *:Range Preservation and Its Relation to Erosion Control on Western Grazing Lands..... | :Dept. Bulletin 675 | : .10 | |
| *:Economy of Farm Drainage..... | :Y. B. Separate 640 | : .05 | |
| *:Drainage Movement in United States..... | :Y. B. Separate 781 | : .05 | |
| Structures | *:The Construction of Concrete Fence Posts..... | :Farmers' Bulletin 403 | : .05 |
| | :Hog Houses..... | :Farmers' Bulletin 438: | |
| | :Ice Houses..... | :Farmers' Bulletin 475: | |
| | :Concrete Construction on the Live Stock Farm..... | :Farmers' Bulletin 481: | |
| | :Poultry House Construction..... | :Farmers' Bulletin 574: | |
| | :Ice Houses and the Use of Ice on the Dairy Farm..... | :Farmers' Bulletin 623: | |
| | :A Simple Trap Nest for Poultry..... | :Farmers' Bulletin 682: | |
| | :A Plan for a Small Dairy House..... | :Farmers' Bulletin 689: | |
| | :Equipment for Farm Sheep Raising..... | :Farmers' Bulletin 810: | |
| | :Construction and Use of Farm Weirs..... | :Farmers' Bulletin 813: | |
| | :Pit Silos..... | :Farmers' Bulletin 825: | |
| | :Farm Reservoirs..... | :Farmers' Bulletin 828: | |
| | :Modern Methods of Protection Against Lighting..... | :Farmers' Bulletin 842: | |
| | :Potato Storage and Storage Houses..... | :Farmers' Bulletin 847: | |
| | :Management of Common-Storage Houses for Apples in the Pacific Northwest..... | :Farmers' Bulletin 852: | |
| | :Homemade Silos..... | :Farmers' Bulletin 855: | |
| | :Home Storage of Vegetables..... | :Farmers' Bulletin 879: | |
| | :Fire Prevention and Fire Fighting on the Farm..... | :Farmers' Bulletin 904: | |
| :A Simple Hog Breeding Crate..... | :Farmers' Bulletin 966: | | |
| Sanitation. | *:Flumes and Fluming..... | :Dept. Bulletin 87 | : .10 |
| | *:The Sanitary Privy..... | :Farmers' Bulletin 463: | : .05 |
| | :Flytraps and Their Operation..... | :Farmers' Bulletin 734: | |
| | :Farm Reservoirs..... | :Farmers' Bulletin 828: | |
| | :The House Fly..... | :Farmers' Bulletin 851: | |
| | :Some Common Disinfectants..... | :Farmers' Bulletin 926: | |
| | :Farm Home Conveniences..... | :Farmers' Bulletin 927: | |

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| | :Water Systems for Farm Homes | Farmers' Bulletin 941: |
| | *:Clean Water and How to Get It on the Farm..... | Y. B. Separate 634 :.10 |
| | *:Sewage Disposal on the Farm..... | Y. B. Separate 712 :.05 |
| Machinery | *:The Cream Separator on Western Farms..... | Farmers' Bulletin 201 :.05 |
| | *:The Use of Alcohol and Gasoline in Farm Engines | Farmers' Bulletin 277 :.05 |
| | *:Economic Study of the Farm Tractor in the | : |
| | : Corn Belt..... | Farmers' Bulletin 719 :.05 |
| | : Minor Articles of Farm Equipment..... | Farmers' Bulletin 816 : |
| | : The Care and Repair of Farm Implements. III. | : |
| | : Plows and Harrows..... | Farmers' Bulletin 946 : |
| | : The Care and Repair of Farm Implements. IV. | : |
| | : Mowers, Reapers, and Binders..... | Farmers' Bulletin 947 : |
| | : Tractor Experiments in Illinois: A Study of | : |
| | : the Farm Tractor Under Corn Belt Conditions.. | Farmers' Bulletin 963 : |
| | : Efficient Operation of Threshing Machines..... | Farmers' Bulletin 991 : |
| | : The Use of Machinery in Cutting Corn..... | Farmers' Bulletin 992 : |
| | : The Gas Tractor in Eastern Farming..... | Farmers' Bulletin 1004 : |
| | : Haystakers: How They May be Used in the East | : |
| | : and South to Save Labor..... | Farmers' Bulletin 1009 : |
| | : Practical Hints on Running a Gas Engine..... | Farmers' Bulletin 1013 : |
| | : Machinery for Cutting Firewood..... | Farmers' Bulletin 1023 : |
| | : The Farm Tractor in the Dakotas..... | Farmers' Bulletin 1035 : |
| | : Influence of the Tractor on Use of Horse..... | Farmers' Bulletin 1093 : |
| | *:Dust Explosions and Fires in Grain Separators | : |
| | : in the Pacific Northwest..... | Dept. Bulletin 379 :.10 |
| | *:Small Sawmills: Their Equipment, Construction | : |
| | : and Operation..... | Dept. Bulletin 718 :.10 |
| | :Put a Stop to Dust Explosions and Fires in | : |
| | : Threshing Machines..... | Bur. Chem. Doc. : |
| | :It is Possible to Prevent Grain Dust Explosions | : |
| | : and Fires..... | Bur. Chem. Doc. : |
| | :Efficient Operation of Threshing Machines..... | Bur. Chem. Doc. : |
| Roads and Bridges | *:Sand-Clay and Burnt-Clay Roads..... | Farmers' Bulletin 311 :.05 |
| | :Macadam Roads..... | Farmers' Bulletin 338 : |
| | *:Benefits of Improved Roads..... | Farmers' Bulletin 505 :.05 |
| | :The Road Drag and How It is Used..... | Farmers' Bulletin 597 : |
| | *:Object Lesson in Experimental Roads and Bridge | : |
| | : Construction, 1912-13..... | Dept. Bulletin 53 :.05 |
| | *:Progress Reports of Experiments in Road Pres- | : |
| | : ervation and Dust Prevention, 1913..... | Dept. Bulletin 105 :.05 |
| | *:Road Models..... | Dept. Bulletin 220 :.15 |
| | *:Vitrified Brick Pavements for Country Roads.... | Dept. Bulletin 246 :.10 |
| | *:Portland Cement Concrete Pavements for Country | : |
| | : Roads..... | Dept. Bulletin 249 :.15 |
| | *:Progress Reports of Experiments in Road Preser- | : |
| | : vation and Dust Prevention, 1914..... | Dept. Bulletin 257 :.10 |
| | *:Methods for the Examination of Bituminous Road | : |
| | : Materials..... | Dept. Bulletin 314 :.10 |
| | *:Methods for the Determination of the Physical | : |
| | : Properties of Road-building Rock..... | Dept. Bulletin 347 :.10 |
| | *:Relation of Mineral Composition and Rock Struc- | : |
| | : ture to the Physical Properties of Road | : |
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| | *:The Results of Physical Tests of Road-building | : |
| | : Rock..... | Dept. Bulletin 370 :.15 |

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| *:Brick Roads | :Dept. Bulletin 373 | : .15 | |
| *:Economic Surveys of County Highway | : | | |
| : Improvement..... | :Dept. Bulletin 393 | : .35 | |
| *:Progress Reports of Experiments in Dust | : | | |
| : Prevention and Road Preservation, 1915.. | :Dept. Bulletin 407 | : .10 | |
| *:Earth, Sand-Clay, and Gravel Roads..... | :Dept. Bulletin 463 | : .15 | |
| *:The Expansion and Construction of Con- | : | | |
| : crete and Concrete Roads..... | :Dept. Bulletin 532 | : .10 | |
| *:Standard Forms for Specifications, Tests | : | | |
| : Reports, and Methods of Sampling for | : | | |
| : Road Materials..... | :Dept. Bulletin 555 | : .10 | |
| *:Progress Reports of Experiments in Dust | : | | |
| : Prevention and Road Preservation, 1916.. | :Dept. Bulletin 586 | : .10 | |
| *:The Results of Physical Tests of Road | : | | |
| : Building Rock in 1916 and 1917..... | :Dept. Bulletin 670 | : .05 | |
| *:Drainage Methods and Foundations for | : | | |
| : Country Roads..... | :Dept. Bulletin 724 | : .20 | |
| *:State Management of Public Roads, Its | : | | |
| : Development and Trend..... | :Y. B. Separate 638 | : .05 | |
| *:Opening Up the National Forests by Road | : | | |
| : Building..... | :Y. B. Separate 696 | : .05 | |
| :The Design of Public Roads..... | :Y. B. Separate 727 | : .05 | |
| *:Width of Wagon Tires Recommended for | : | | |
| : Loads of Varying Magnitudes on Earth | : | | |
| : and Gravel Roads..... | :Off. of Sec. Circ. 72 | : .05 | |
| Materials of Construc- | *:The Corrosion of Fence Wire..... | :Farmers' Bulletin 239 | : .05 |
| tion | *:The Use of Concrete on the Farm..... | :Farmers' Bulletin 461 | : .05 |
| | :The Use of Paint on the Farm..... | :Farmers' Bulletin 474 | : .05 |
| | :The Preservative Treatment of Farm Tim- | : | |
| | : bers..... | :Farmers' Bulletin 744 | : .05 |
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| | *:Strength Tests of Structural Timbers | : | |
| | : Treated by Commercial Wood-preserving | : | |
| | : Processes..... | :Dept. Bulletin 286 | : .05 |
| Miscel- | *:The Substitution of Other Materials for | : | |
| laneous | : Wood..... | :Off. of Sec. Report 117 | : .15 |
| | *:Industrial Alcohol: Sources and Manu- | : | |
| | : facture..... | :Farmers' Bulletin 429 | : .05 |
| | :Clearing Land..... | :Farmers' Bulletin 974 | : .05 |
| | *:Cost and Method of Clearing Land in the | : | |
| | : Lake States..... | :Dept. Bulletin 91 | : .05 |
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| | : Rural Schools..... | :Dept. Bulletin 527 | : .10 |